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prised to see the nephoscope, nor is maker or price indicated in the list of instruments. It is a pity to put a doubly-folded sheet like that in Chapter III. in a school-book. It will certainly be torn in the first year. By printing on both sides one fold might have been avoided and there is no good reason why all the data might not have been printed in the text as wanted day by day.

The fact that so many problems are worked out in the book makes it easier reading but will require the books to be closely watched in the class-room.

The Weather Bureau Meteorological Tables are inserted at the end of the book with an excellent appendix on the 'Equipment of a Meteorological Laboratory.'

The book should prove valuable to every teacher of meteorology.

M. S. W. JEFFERSON. ELMWOOD, MASS., December 19, 1899.

Bacteria, especially as they are related to the Economy of Nature, to Industrial Processes and to the Public Health. By George Newman, M.D., Demonstrator of Bacteriology, King's College, London. The Science Series. New York, G. P. Putnam's Sons; London, John Murray. 1899. Pp. 348.

The fact that bacteria are concerned in a variety of natural processes and do not devote themselves exclusively to the causation of disease is beginning to touch the popular imagination and to create a demand for treatises that shall deal with the subject of bacteriology from a general biological standpoint rather than a strictly medical one. An attempt to meet this need has been made in the present instance. Dr. Newman discusses, under separate chapterheads: The Biology of Bacteria, Bacteria in Water, Bacteria in the Air, Bacteria and Fermentation, Bacteria in the Soil, and Bacteria in Milk, Milk Products and other Foods. These six chapters cover 239 pages out of 348. A chapter is then given to The Question of Immunity and Antitoxins, which is followed, by what seems a singular inversion, with one on Bacteria and Disease, and the book ends with a chapter on Disinfection. Many topics of great interest are considered in these pages, and the author's selection of material and mode of treatment will command general approval. book is marred, however, by a lax and involved style and contains so many errors of statement as to call seriously for revision. On page 30, for example, it is stated that "boiling for thirty to sixty minutes will kill all bacilli and all spores," and on page 79, "moist heat at the boiling point maintained for five minutes will kill all bacteria and their spores." These statements are not in accord and neither is correct. On page 16 it is erroneously stated that "Micrococcus agilis is the only coccus which has flagella and active motion." In the description of Van Ermengem's method of staining flagella (p. 63) it is probably through a typographical slip that a 25.5 per cent. solution of silver nitrate is recommended, and surely the use of boric acid in place of osmic acid in the fixing bath is an unusual procedure. It is hardly a careful form of statement to refer to the power of the tetanus bacillus to produce disease as its 'regular function' (p. 32). The author's definition of the antitoxin unit (p. 263) is incorrect. It is not necessary to multiply instances, but it is to be hoped that subsequent editions may find some of these blemishes removed, since they unquestionably impair the value of an otherwise interesting and useful book.

Two examples of the author's somewhat enigmatic style may be given: "Yet, whilst this general fact is true, we must emphasize at the outset the possibility and practicability of securing absolutely pure sterile milk. Recently some milking was carried out under strict antiseptic precautions, with the above sterile result" (p. 181). "Budding occurs in some kinds of yeast, and would be classified by some authorities under spore formation, but in practice it is so obviously a 'budding' that it may be so classified" (p. 16).

E. O. J.

A Treatise on Crystallography. By W. J. Lewis, M.A., Professor of Mineralogy in the University of Cambridge. Cambridge Natural Science Manuals, Geological Series. Cambridge: At the University Press. 1899. 4to. Pp. xii + 612.

This new text-book of crystallography presents the modern views as to the classification of